

**Notice of Allowability**

Application No.

09/834,282

Applicant(s)

OKADA ET AL.

Examiner

Art Unit

Duc C Ho

2665

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 8-26-04.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 12 April 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 01-04-05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### EXAMINER 'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William S. Frommer on 1-04-05.

The application has been amended as follows:

In the Specification:

Page 46, second line from the bottom, "on" has been changed to --- one ---.

Page 46, last line, "(B<sub>110</sub>-B<sub>113</sub>)" has been changed to --- (B<sub>110</sub>-B<sub>113</sub>, see figure 17) ---.

In the claims:

Claim 3, line 3, "channel .." has been replaced with --- channel . ---.

Claim 5, "of :." has been replaced with --- of : ---.

### Reason for allowance

2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior arts fail to teach or fairly suggest an OFDM receiving device for receiving an orthogonally frequency divided and multiplexed signals comprising a frame synchronism control section, wherein the control section being adapted to maintain the

synchronism of the transmission frames for switching the information channel to be used for signal reception among the channels connected for transmission in the case of receiving OFDM signals of frequency domains of a plurality of information channels multiplexed in a direction of frequency and collectively subjected to an operation of inverse Fourier transform for connected transmission, in combination with other limitations, as specified in the independent claim 1.

Regarding claim 2, the prior arts fail to teach or fairly suggest an OFDM receiving device for receiving an orthogonally frequency divided and multiplexed signals comprising a control section for controlling the Fourier transform section and the decoder, wherein the control section being adapted to determine whether the information channel being used for signal reception is coupled to the information channel to be selected for signal reception by switching by referring to information on connected transmission, in combination with other limitations, as specified in the independent claim 2.

Regarding claim 4, the prior arts fail to teach or fairly suggest an OFDM receiving method for receiving an orthogonally frequency divided and multiplexed signals comprising a step of maintaining the synchronism of the transmission frames for switching the information channel to be used for signal reception among the channels connected for transmission, in combination with other limitations, as specified in the independent claim 4.

Regarding claim 5, the prior arts fail to teach or fairly suggest an OFDM receiving method for receiving an orthogonally frequency divided and multiplexed signals comprising a step of determining whether the information channel to be selected for signal reception by switching by referring to the information on the connected transmission, in combination with other limitations, as specified in the independent claim 5.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner



Duc Ho

01-04-05